

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
24 February 2005 (24.02.2005)

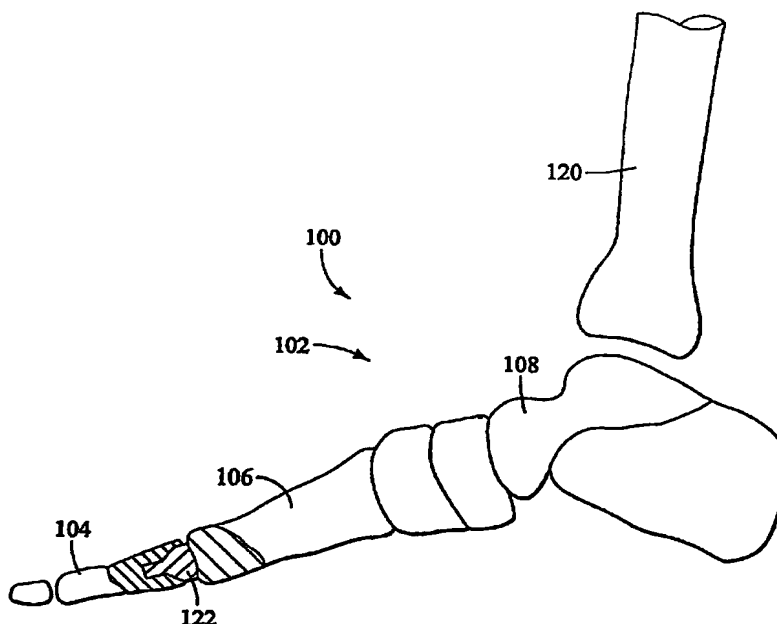
PCT

(10) International Publication Number  
**WO 2005/016174 A3**

- (51) International Patent Classification<sup>7</sup>: **A61F 2/42**
- (21) International Application Number:  
PCT/US2004/020457
- (22) International Filing Date: 25 June 2004 (25.06.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/483,499 27 June 2003 (27.06.2003) US
- (71) Applicant (for all designated States except US): **ADVANCED BIO SURFACES, INC.** [US/US]; 5909 Baker Road, Suite 550, Minnetonka, MN 55345 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **RYDELL, Mark, A.** [US/US]; 516 Turnpike Road, Golden Valley, MN 55416 (US). **MCGARVEY, Scott** [US/US]; 5029 Edinborough Way, Big Lake, MN 55309 (US). **FELT, Jeffrey, C.** [US/US]; 4800 Lodge Lane, Greenwood, MN 55331 (US).
- (74) Agents: **GOLDMAN, Philip, M.** et al.; Fredrikson & Byron, P.A., 200 South Sixth Street, Suite 4000, Minneapolis, MN 55402 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR TOE ARTHROPLASTY



(57) Abstract: A system for the creation or modification of an orthopedic joint within a mammalian body is disclosed. The system includes an implant (122, 132, 232, 332, 432) that provides a major surface adapted to be positioned against a metatarsal bone and an end (136, 236, 336, 436) adapted to be retained within a phalange.



WO 2005/016174 A3



**Published:**

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(88) Date of publication of the international search report:**

7 April 2005